USER'S MANUAL

CHT-R SERIES

DSP-Controlled Home Theater Subwoofer

CHT-8R

CHT-10R

CHT-12R

CHT-15R

Velodyne®

Enjoy.

Thank you for choosing a Velodyne. Our passion for high performance, low-distortion bass is the driving force behind our worldwide reputation in audio and technical innovation.

We are pleased to bring the Velodyne sound experience to your home.

IMPORTANT SAFETY INSTRUCTIONS

CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN

Caution

To reduce the risk of electric shock, do not remove cover (or back). No user-serviceable parts inside. Refer servicing to qualified service personnel.

The lightning flash with arrowhead symbol is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the subwoofer.

1. **Read Instructions —** All safety and operating instructions should be read before the product is operated.
2. **Retain Instructions —** The safety and operating instructions should be retained for future reference.
3. **Heed Warnings —** All warnings on the product and in the operating instructions should be adhered to.
4. **Follow Instructions —** All operating and use instructions should be followed.
5. **Water and Moisture —** The product should not be used near water — for example, near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, near a swimming pool or the like.
6. **Carts and Stands —** The product should be used only with a cart or stand recommended by the manufacturer.
7. **Wall or Ceiling Mounting —** The product should be mounted to a wall or ceiling only as recommended by the manufacturer.
8. **Ventilation —** The product should be situated so that its location or position does not interfere with its proper ventilation. For example, the product should not be situated on a bed, sofa, rug, or similar surface that may block the ventilation openings; or placed in a built-in installation such as a bookcase or cabinet that may impede the flow of air through the ventilation openings.
9. **Heat —** The product should be situated away from heat sources such as radiators, heat registers, stoves, or other products that produce heat.
10. **Power Sources —** The product should be connected to a power supply only of the type described in the operating instructions or as marked on the product.
11. **Grounding or Polarization —** This product may be equipped with a polarized alternating-current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.
12. **Power-Cord Protection —** Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point at which they exit from the product.
13. **Cleaning —** The product should be cleaned only as recommended by the manufacturer.
14. **Nonuse Periods —** The power cord of the product should be unplugged from the outlet when left unused for a long period of time.
15. **Object and Liquid Entry —** Care should be taken so that objects do not fall and liquids are not spilled onto the enclosure.
16. **Damage Requiring Service —** The product should be serviced by qualified service personnel when:
    a. The power-supply cord or plug has been damaged.
    b. Objects have fallen or liquid has been spilled into the product.
    c. The product has been exposed to rain.
    d. The product does not appear to operate normally or exhibits a marked change in performance.
    e. The product has been dropped or damaged.
17. **Servicing —** The user should not attempt to service the product beyond what is described in the operating instructions. All other servicing should be referred to qualified service personnel.
18. **Lightning —** For added protection for the product during a lightning storm or when it is left unattended and unused for long periods of time, unplug it from the wall outlet.
19. **Overloading —** Do not overload wall outlets, extension cords or integral convenience receptacles as this can result in a risk of fire or electric shock.

CAUTION: To prevent electrical shock, match wide blade of plug to wide slot, fully inserted.

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CONGRATULATIONS

Congratulations on your purchase of a Velodyne Classic Home Theater (CHT™-R) subwoofer. This system represents the state-of-the-art in low frequency reproduction. Read and follow the instructions below to insure safe and proper system operation.

Note: Do not leave unit in direct sunlight or use in high humidity environments!!!

Warning!

To prevent fire or shock hazard, do not expose this equipment to rain or moisture. To avoid electrical shock, do not open speaker enclosure or amp chassis cover. Please observe all warnings on the equipment itself. There are no user serviceable parts inside. Please refer all service questions to your authorized Velodyne dealer.

Prior to Installation:

Please unpack the system carefully. Please save the carton and all packaging materials for future use. Record the serial number in the space provided on the warranty card for future reference.

Product Features

- DSP-controlled
- Four selectable presets for customized listening mode
- Night-mode setting
- Mute control
- Built-in 160 watt (RMS) power amplifier (CHT-8R)
- Built-in 185 watt (RMS) power amplifier (CHT-10R)
- Built-in 200 watt (RMS) power amplifier (CHT-12R)
- Built-in 1000 watt (RMS) power amplifier (CHT-15R)
- Adjustable (40 to 120 Hz) low-pass crossover with Subwoofer Direct setting
- Speaker-level inputs and outputs
- 85 Hz high-pass crossover
- Line-level inputs
- Signal sensing auto turn on/off with bypass option
- Variable volume control
- Selectable phase control (0, 90, 180, or 270 degrees)
- Dual staggered low-pass crossover; 12 dB/octave initial, 24 dB/octave ultimate
- Anti-clipping circuit
- Over excursion protection
- Slot loaded design
- Dual staggered low-pass crossover; 12 dB/octave initial, 24 dB/octave ultimate
- Anti-clipping circuit
- Over excursion protection
- Slot loaded bass reflex design

INSTALLATION

Your new subwoofer system provides for a number of installation options. Read all the installation information below in order to determine which installation option is best for your system. Remember to perform all installation procedures with system power turned off.

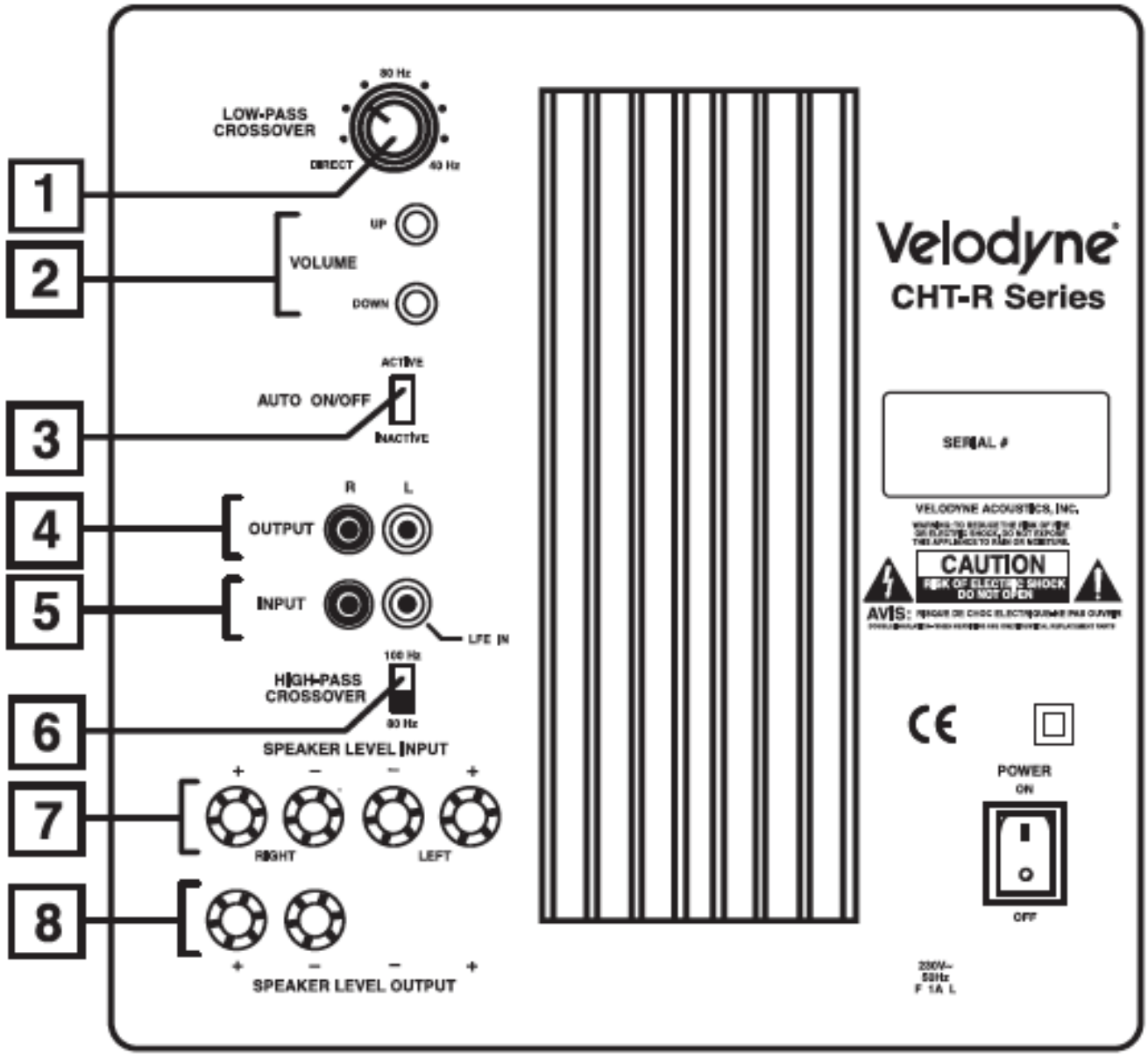

Figure 1. CHT-R Rear Panel Connections

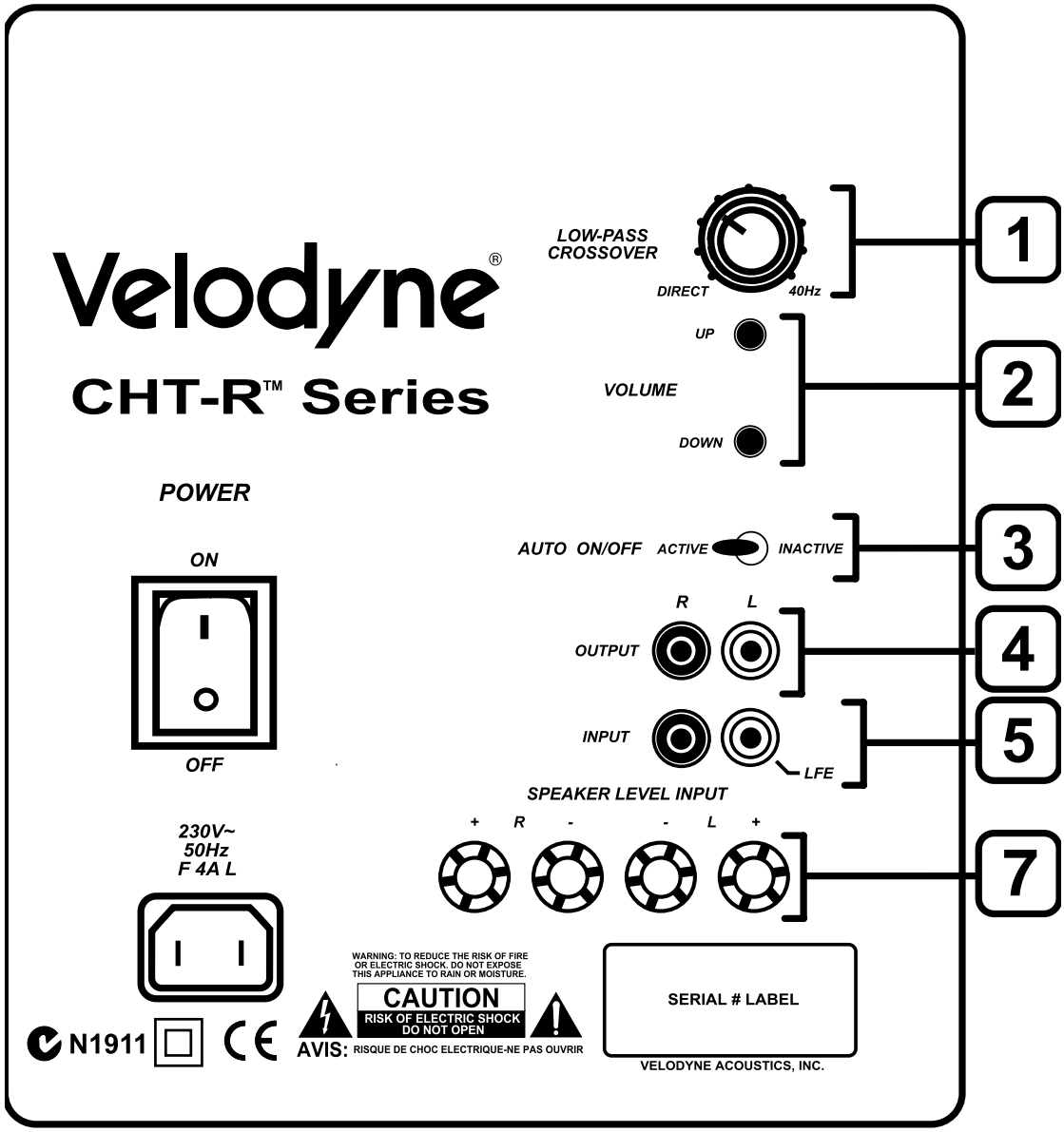

Figure 2. CHT-15R Rear Panel Connections

REAR PANEL CONNECTIONS

Figure 1 shows the connections on the rear panel of the CHT-8R, CHT-10R and CHT-12R.
Figure 2 shows the connections on the rear panel of the CHT-15R.

Following are brief descriptions of the connections described in Figure 1 and 2. More detail on these connections can be found on the next page.

(1) LOW-PASS CROSSOVER

Use this knob to select the high-frequency range at which you wish to cut off the signal to the subwoofer. When the knob is turned all the way to the left, the Subwoofer Direct feature is invoked and the subwoofer plays all frequencies up to 200 Hz.

(2) VOLUME Control

This control allows you to balance the output from the subwoofer to the main speakers in your system. This control should be set to achieve similar volume level from between both the main speakers and subwoofer. When pressing volume up or down, the speed at which the power light blinks indicates subwoofer volume - the faster the blinking, the louder the unit plays. After the volume is changed (up or down), there will also be 2 sets of center LED blinks. Slower blinks represent tens and faster blinks represent ones. If the LED blinks 3 times, pauses, then blinks 6 times, this means that the volume is set at 36. The volume range is from 1 to 99.

Note: Volume is also controllable by using the supplied remote, when defaults are restored. The default is 35 out of 100.

WARNING: Some manufacturers preset their receivers with the Sub-Out channel signal at a minimum level. It is very important to verify that your receiver Sub-Out channel is set to the same output as your front right and left channels. Refer to your receiver manual for the individual channel level adjustment procedure. If your receiver Sub-Out channel is set too low, the subwoofer may appear to have a weak output, it may sound noisy or distorted, and the Auto-On/Off feature may not work properly.

(3) AUTO ON/OFF Switch

The Auto-On/Off feature allows the subwoofer to turn itself off when not in use.

- With the Auto-On/Off switch set to ACTIVE, the subwoofer will monitor its input, and if there is no signal present for approximately 15 minutes, it will shut down and go into standby mode. As soon as a signal is present again, the subwoofer will immediately turn itself back on.

- With the Auto-On/Off switch set to INACTIVE, the auto-on/off feature is bypassed. The subwoofer will remain on until the power switch is turned off.

WARNING: If the Sub-Out channel signal level from your receiver is too weak, this feature will not operate properly. See Volume Control section (above).

(4) LINE OUTPUT

Connect these jacks to the LINE IN preamp input to use the CHT-R's internal high pass crossover. See below for a more detailed explanation of this crossover.

(5) LINE INPUT/LFE Input

Connect these jacks to the LINE OUT preamp output, LFE output, or subwoofer output jacks of your receiver/processor. If using the LFE output from your receiver or processor, plug the single cable into the "L"– LFE input or, for more signal, use a "Y" connector and feed the signal into both "R" and "L" inputs.

(6) HIGH PASS CROSSOVER Switch

This switch selects the frequency for the high pass crossover. This crossover is functional on both line and speaker-level outputs. Smaller speakers with limited low frequency output may perform better using the higher 100 Hz setting that will reduce the low frequencies sent to them. Larger speakers with greater low frequency output may be able to handle the 80 Hz setting without strain.

(**7) SPEAKER LEVEL INPUT Terminals**

Connect these input terminals to the speaker output terminals of your amplifier or receiver. If you use this method of connection, when you go to the receiver speaker set up menu, make sure you select the large speaker option.

(8) SPEAKER LEVEL OUTPUT Terminals

Sends a crossed-over speaker-level signal to the front speakers. See below for a more detailed explanation of this crossover.

REAR PANEL CONNECTIONS

Your new subwoofer is equipped with both speaker-level and line-level inputs. Use the RCA/Phono type “INPUT” jacks when connecting your subwoofer to a pre-amp, signal processor, or line-level crossover. The “SPEAKER LEVEL INPUT” jacks connect directly to the speaker outputs of an integrated amplifier or receiver. Your amplifier section will notice no additional loading effects when you use these inputs because of their high impedance.

Note: Do not use both the RCA/Phono “INPUT” connections and “SPEAKER LEVEL INPUT” connections simultaneously.

Low-Pass Crossover

Both sets of inputs sum the left and right channels together and the resulting signal is passed through an adjustable low-pass crossover before being amplified. The crossover control allows you to adjust the upper limit of the subwoofer’s frequency response from 40 to 120 Hz. The subwoofer’s response will begin rolling off above the frequency you set this control to.

You should set the crossover frequency to obtain a smooth and seamless transition from the subwoofer to the main speakers in your system. If your main speakers are smaller units with limited low frequency output, you may wish to choose a higher frequency (such as 100 -120 Hz) than you would with larger speakers which have greater low frequency output. With larger speakers, you might start with this control set lower, such as 80 Hz.

Subwoofer Direct

Subwoofer Direct is a setting on the low-pass crossover knob and will allow frequencies up to 200 Hz into the subwoofer. See below for a more detailed explanation of this feature.

Speaker Level Output/Line Level Output

When connected in this fashion, your satellite speakers will be crossed over at 80 Hz. This removes the lower bass from your satellites, enabling them to do a better job reproducing high frequencies and giving your receiver’s amp more headroom (up to 50% more power). You may also connect your satellites directly to your receiver or amplifier along with the subwoofer if you wish to bypass this crossover.

Caution!!!

To avoid damage to your main amplifier, be sure to maintain correct polarity when making all connections. Red (positive) to red, and black (negative) to black. Be sure that all connections are tight, and that there are no loose strands or frayed wires.

Power Switch

The master power switch is located on the lower right half of the unit. This rocker style switch is the main on/off for the unit. This switch should be set to position 1 for on (up), 0 for off (down).

A Word About Your Receiver's Crossover and the CHT-R Crossover

Your Velodyne CHT-R subwoofer is designed to operate using the full range audio signal for input when using the built-in crossover (controlled by the dial on the back panel). Many home theater processors/receivers (Dolby Digital®, DTS®, THX®) have a "subwoofer out" jack that performs this same function and are designed to be used with a powered subwoofer.

In these installations, you may want to bypass the crossover in either the processor or the Velodyne subwoofer. In some cases, you may want to use BOTH crossovers. To do this, you can use both your processor's crossover and the one internal to the Velodyne sub. You should stagger the frequencies (i.e., 120 Hz subwoofer, 80 Hz processor) for best results.

To bypass the subwoofer's internal crossover when the unit is being fed a low pass signal from another crossover, simply locate the knob marked "LOW-PASS CROSSOVER" on the rear panel of the subwoofer and turn it counterclockwise to the "DIRECT" position. This will eliminate the internal crossover from the signal path.

Note: If not using an external crossover, you should use the built-in crossover for optimal performance. When using a single RCA sub out from the processor, it does not matter which line level input (L/R) is used.

INTERCONNECT CABLES

When installing your new Velodyne subwoofer using the line-level connections, you should always use shielded phono cables. There are many decent cables available today, most any of which will work perfectly well. We do recommend that you keep the length of cable as short as possible to avoid any potential noise problems.

When using speaker level connections, use a quality speaker cable that mates well with the connectors (at least 14-gauge). Be very careful to avoid any loose or frayed strands that could result in a short, causing a dangerous condition and possible damage to your unit. Cables of extremely large size are typically not required. Extremely large gauge wire may not properly fit in the binding posts, resulting in a poor connection and possible short circuits.

Placement

True subwoofers operate at extremely low frequencies, which are primarily omni-directional. While it is recommended that the subwoofers be placed on the same plane as the satellitespeakers, room and system conditions often dictate otherwise. Keep in mind that frequency response and output level can be drastically influenced by placement, depending on the acoustic properties of your listening room. Typically, the optimum location for a subwoofer is in a front corner of your listening room. This location will usually offer the greatest output levels and optimum low frequency extension. The worst location for a subwoofer is typically far away from any walls, close to the center of your room and near an opening or door way. Avoid these locations when possible. When using a pair of Velodyne subwoofers in stereo, it is preferable to place each subwoofer near the satellite of the same channel. Typically, a minimum distance of one to two feet from your TV to the subwoofer will be adequate to avoid anymagnetic interference.

Caution!

This subwoofer has electronics built into the cabinet. Do not place the cabinet next to sources of heat such as furnace registers, radiators, etc. Do not place the unit near sources of excessive moisture, such as evaporative coolers, humidifiers, etc. The power cord should be routed in such a way that it will not be walked on, pinched, or compressed in any way that could result in damaging the insulation or wire.

USAGE

This section addresses day-to-day usage of your CHT-R subwoofer.

Remote Control

Figure 3 shows the remote control, enabling you to easily choose whatever listening mode *you desire.*

Figure 3. Remote Display

POWER - This button forces your CHT-R unit into standby mode. The woofer will not play and the LED will turn off. The unit will remain in this mode until the POWER button is pressed again. To fully deactivate (i.e. power down) the unit, turn off the power switch on the back panel.

MUTE - This button mutes the subwoofer. The light on the subwoofer will blink slowly if the unit is muted. To unmute the subwoofer, press the MUTE button again.

PHASE - These buttons allow you to optimize the subwoofer performance for the location andyour listening position. Select the switch position at which you hear the most bass. The light will blink according to the following schedule:

0 degrees 1 blink
90 degrees 2 blinks
180 degrees 3 blinks
270 degrees 4 blinks

LIGHT - If you wish, you can deactivate the power light on your CHT-R unit. To do this, press the LIGHT button on your remote. The light will turn off. To reactivate the light, press the LIGHT button again.

NIGHT - Night mode limits the maximum output of the subwoofer for later night listening or to be more considerate of close neighbors. Press the night button to turn the night mode feature on or off. Night mode, when active, is indicated by the reduced intensity of the light.

VOLUME CONTROL - This control allows you to balance the output from the subwoofer to the main speakers in your system. This control should be set to achieve similar volume level from between both the main speakers and subwoofer. When pressing volume up or down, the speed at which the power light blinks indicates subwoofer volume - the faster the blinking, the louder the unit plays. Slower blinks represent tens and faster blinks represent ones. After the volume is changed (up or down) there will also be 2 sets of center LED blinks. If the LED blinks 3 times, pauses, then blinks 6 times, this means that the volume is set at 36. The volume range is from 1 to 99.

Note: The volume can also be adjusted via the buttons on the back panel of the subwoofer. These buttons have the same effect as pressing the up and down volume buttons on your remote.

WARNING: Some manufacturers preset their receivers with the Sub-Out channel signal at a minimum level. It is very important to verify that your receiver Sub-Out channel is set to the same output as your front right and left channels. Refer to your receiver manual for the individual channel level adjustment procedure. If your receiver Sub-Out channel is set too low, the subwoofer may appear to have a weak output, it may sound noisy or distorted, and the Auto-On/Off feature may not work properly.

PRESETS - There are four presets, consisting of Movies, R&B – Rock, Jazz – Classical, and Games. As a preset is chosen, the light flashes the corresponding number of times. The presets provide the following characteristics for bass reproduction:

Movies:	Maximum output and impact for explosions and other action adventure movie content.
R&B – Rock:	Provides the driving bass found in today's rock music.
Jazz – Classical:	The tightest, cleanest, lowest distortion bass.
Games:	Maximum loudness available for the impact of video games.

The following table indicates musical style and which preset is recommended for it.

Musical Style	**Suggested Preset**
Action Adventure Movies	Movies
Country – Rock	R&B – Rock
Country – Soft	Jazz – Classical
Folk	Jazz – Classical
Indie Music	R&B – Rock
Pop	R&B – Rock
Rock	R&B – Rock
Alternative Rock	Jazz – Classical
Blues	Jazz – Classical
Broadway and Vocalists	Jazz – Classical
Children's Music	Jazz – Classical
Christian and Gospel	Jazz – Classical
Classic Rock	R&B – Rock
Classical	Jazz – Classical
Dance and DJ	R&B – Rock
Hard Rock/Heavy Metal	R&B – Rock
Latin Music	R&B – Rock
Miscellaneous	Jazz – Classical
Movies – Non-Action Adventure	Jazz – Classical
New Age	Jazz – Classical
Opera and Vocal	Jazz – Classical
R&B	R&B – Rock
Rap and Hip-Hop	R&B – Rock
Soundtracks	R&B – Rock or Jazz – Classical
Video Games	Games

Each preset has its own characteristics with respect to subsonic filter, volume differential and a equalization (EQ) in order to optimize the listening mode for the preset.

The following table shows the settings for the various presets:

Preset	Subsonic Filter Frequency	EQ Frequency	EQ Level	Volume Differential
Movies	24 Hz	37 Hz	+4 dB	+8 dB
R&B - Rock	27 Hz	52 Hz	+3 dB	+5 dB
Jazz - Classical (Reference)	24 Hz	N/A	N/A	N/A
Games	34 Hz	62	+4 dB	+4 dB

:

RESTORE DEFAULTS – This feature allows you to restore default settings for your CHT-R Subwoofer. By pressing Presets in EXACTLY the following order on the remote, the unit's power light will blink three times indicating that you have restored defaults.

1. Movies
2. R&B – Rock
3. Jazz – Classical
4. Games
5. Games
6. Jazz – Classical
7. R&B – Rock
8. Movies

When you press the presets in the above order, the power light will blink three times indicating that you have restored defaults. The default preset is Jazz/Classical, and the unit's volume is reset to level 35 (out of 100).

CARE OF YOUR SUBWOOFER

Do not use any harsh detergents or chemicals to clean the cabinet. Abrasives, detergents, or cleaning solutions will damage the finish on the cabinet. We recommend using a damp cloth to clean the front, back and sides. Use a soft cloth with a good quality furniture polish to clean the hand-rubbed, black lacquer, painted top.

During normal conditions, the subwoofer may be left on continuously without any problems. If you plan to leave the unit unused for an extended period of time, we recommend that you turn off the unit by the master power switch on the rear panel.

TROUBLESHOOTING AND SERVICE

Before seeking service for your subwoofer, please re-check all systems. Following is a simple troubleshooting guide to assist you.

1. Verify that the unit is plugged in and power outlet used is active.
2. Is the power switch on?
3. Is unit receiving an input signal from your source?
4. Have all controls on subwoofer (volume, crossover, phase, etc.) been properly set?
5. If unit has been running at high levels, one of the protection circuits may be engaged. Has the built-in amplifier overheated?
6. Has the power button been depressed on the remote?
7. Is the remote non-responsive? We recommend replacing the batteries in the remote. If the protection circuitry is active, the unit may cycle on and off until operating parameters return to normal. Under more serious conditions, the unit may shut off completely. Normal operation will return upon cooling, but you may be required to turn the power off and then on again to reset the unit.

The following conditions require service by a qualified technician:

1. The power cord has become damaged.
2. The unit does not appear to operate normally or exhibits a marked change in performance.
3. The unit has been exposed to water.
4. Some part of the cabinet or circuitry is physically damaged.

Thank You for Purchasing a Velodyne CHT-R Series Subwoofer Product!

SPECIFICATIONS

Model	CHT-8R	CHT-10R	CHT-12R	CHT-15R
Cabinet (H/W/D) (cm)	15" x 12" x 15.75" 37.5 x 30 x 39	16" x 15" x 17.75" 40 x 37.5 x 44	18" x 15" x 19" 45 x 37.5 x 47.5	21" x 18.4" x 20.75" 52.5 x 46 x 52
Frequency Response	35 Hz - 140 Hz (+/-3dB)	28 Hz - 140 Hz (+/-3dB)	25 Hz - 140 Hz (+/-3dB)	23 Hz - 140 Hz (+/-3dB)
High-Pass Crossover	80 Hz or 100 Hz (6dB/octave slope)	80 Hz or 100 Hz (6dB/octave slope)	80 Hz or 100 Hz (6dB/octave slope)	80 Hz or 100 Hz (6dB/octave slope)
Low-Pass Crossover	40 Hz - 120 Hz (12dB/octave, 24dB ultimate)	40 Hz - 120 Hz (12dB/octave, 24dB ultimate)	40 Hz - 120 Hz (12dB/octave, 24dB ultimate)	40 Hz - 120 Hz (12dB/octave, 24dB ultimate)
Amplifier (Class A/B) (Class D for CHT-15R)	350 watts Dynamic /160 watts RMS power	375 watts Dynamic /185 watts RMS power	400 watts Dynamic /200 watts RMS power	1000 watts Dynamic /1000 watts RMS power
Woofer	8" forward firing	10" forward firing	12" forward firing	15" forward firing
Magnet	40 oz.	40 oz.	55 oz.	70 oz.
Voice Coil	2" two-layer copper	2" two-layer copper	2" two-layer copper	2" two-layer copper
Input	Line-level and speaker-level	Line-level and speaker-level	Line-level and speaker-level	Line-level and speaker-level
Outputs	Line-level and speaker-level	Line-level and speaker-level	Line-level and speaker-level	Line-level and speaker-level
Warranty	Two years (parts and labor)	Two years (parts and labor)	Two years (parts and labor)	Two years (parts and labor)
Shipping Weight (approx.)	44 lbs. (20 kg)	55 lbs. (25 kg)	61 lbs. (28 Kg)	75 lbs. (34 Kg)

Specifications are subject to change without notice.

VELODYNE PRODUCTS

110V

DD® Series
DD-10
DD-12
DD-15
DD-18
Digital Drive 1812 Signature Edition

DLS™-R Series
DLS-3500R
DLS-3750R
DLS-4000R
DLS-5000R

DPS™ Series
DPS-10
DPS-12

MiniVee®

SMS™-1

SPL™-R Series
SPL-800R
SPL-1000R
SPL-1200R
SPL-1500R

SubContractor™ Series
SC-1250
SC-8
SC-10
SC-12
SC-15
SC-IW
SC-IF/IC

VRP Series
VRP-1000
VRP-1200

VX™ Series
VX-10

230V

DD® Series
DD-10
DD-12
DD-15
DD-18
Digital Drive 1812 Signature Edition

CHT-R Series
CHT-8R
CHT-10R
CHT-12R
CHT-15R

SMS™-1

SPL-800i

SPL™-R Series
SPL-800R
SPL-1000R
SPL-1200R
SPL-1500R

SubContractor™ Series
SC-1250
SC-8
SC-10
SC-12
SC-15
SC-IW
SC-IF/IC

FOR YOUR RECORDS

DATE/PLACE OF PURCHASE:	PRODUCT MODEL:	PRODUCT SERIAL NUMBER:

NOTE: If you need to file a warranty claim for your product, you will still need to submit to Velodyne the original sales invoice or other proof of ownership and date of purchase.

Please validate your product warranty by completing the warranty registration online within 30 days at:
velodyne.com/warranty-subwoofers

For detailed warranty information, please visit us online at:
velodyne.com/warranty-subwoofers

The warranty information indicated above refers to products purchased in the United States and Canada only. If you purchased your product outside of the United States or Canada, please consult your local authorized Velodyne dealer for warranty registration and information.

CHT-R SERIES

63CHT-R_RevC_MAY2012

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